



6525018

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Title: INTESTINAL TREFOIL PROTEINS

Applicant(s): Daniel K. Podolsky

Filing Date: May 17, 1999

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FIG. 1

gaagtttgcg tgctgcc 17
atg gag acc aga gcc ttc tgg ata acc ctg ctg gtc ctg gtt 62
gct ggg tcc tcc tgc aaa gcc cag gaa ttt gtt ggc cta tct cca 107
agc caa tgt atg gcg cca aca aat gtc agg gtg gac tgt aac tac 152
ccc act gtc aca tca gag cag tgt aac aac cgt ggt tgc tgt ttt 197
gac tcc agc atc cca aat gtg ccc tgg tgc ttc aaa cct ctg caa 242
gag aca gaa tgt aca ttt 260
tgaagctgtc caggctccag gaaggagct ccacaccctg gactcttgct 310
gatggtagtg gcccagggta acactcacc ctgatctgct ccctcgcgcc 360
ggccaatata ggagctggga gtccagaaga ataaagacct tacagtcagc 410
acaaggctgt tctaattgcg g 431



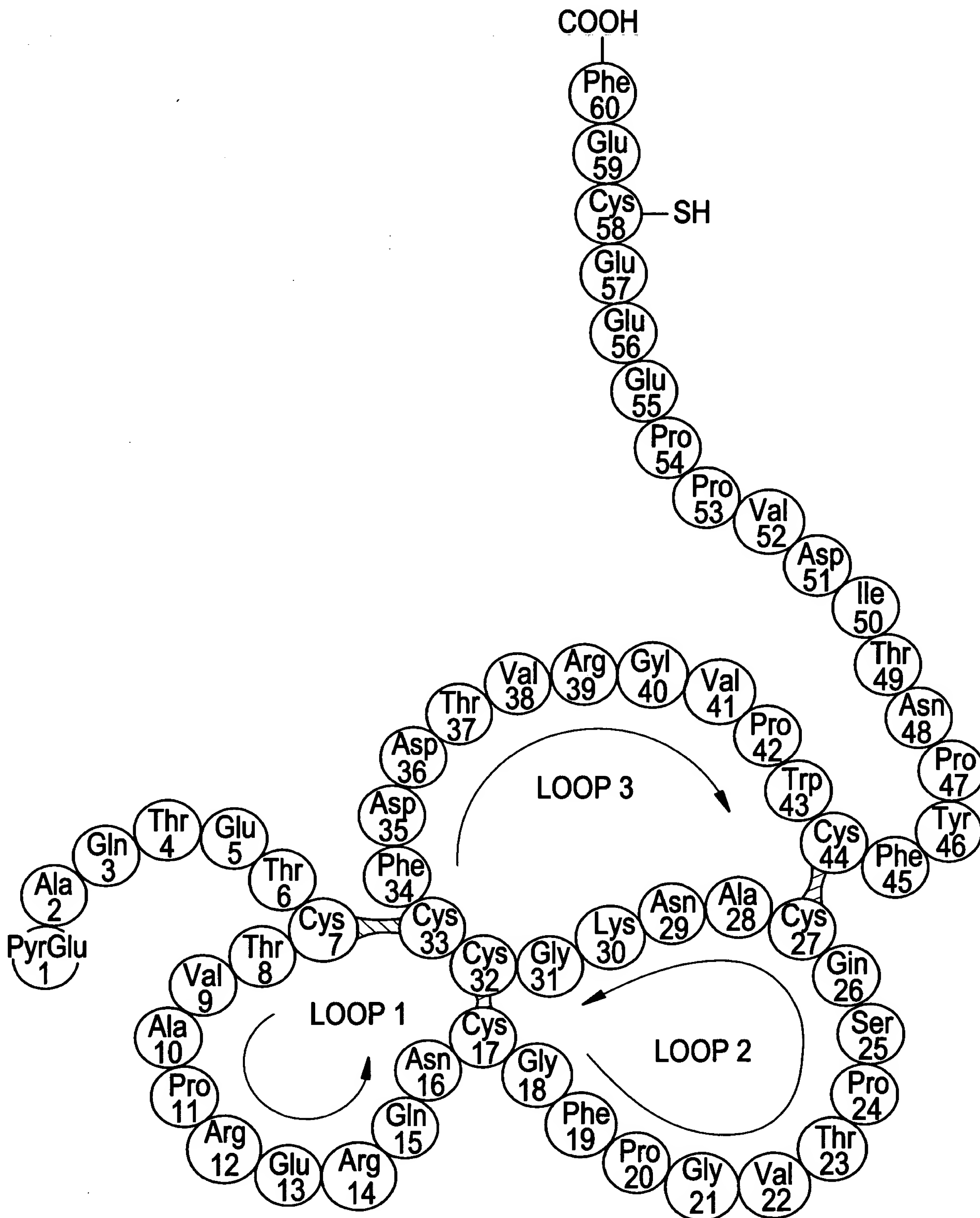
FIG. 3

rITF	METRAFWITLLLVAGSSCKAQEFVGLSPSQCMAPTNRVDCNYPFTVTSEQCNNRGCC	
ps2	-----EAQ-----TETCTVAPRERQNCGFPGVTPSQCANKGCC	
PSP	-----EKPAACRCSRQDPKN-RVNCGFPGITSDQCF TSGCC	

rITF	FDSSIPNVPWCFK-----PLQ-----ETECT-----F	
ps2	FDDTVRGVPWCFY-----PNTIDVPPEEECE-----F	
PSP	FDSQVPGVPWCFK-----PLP-----AQESEECEVMEV	



FIG. 4A



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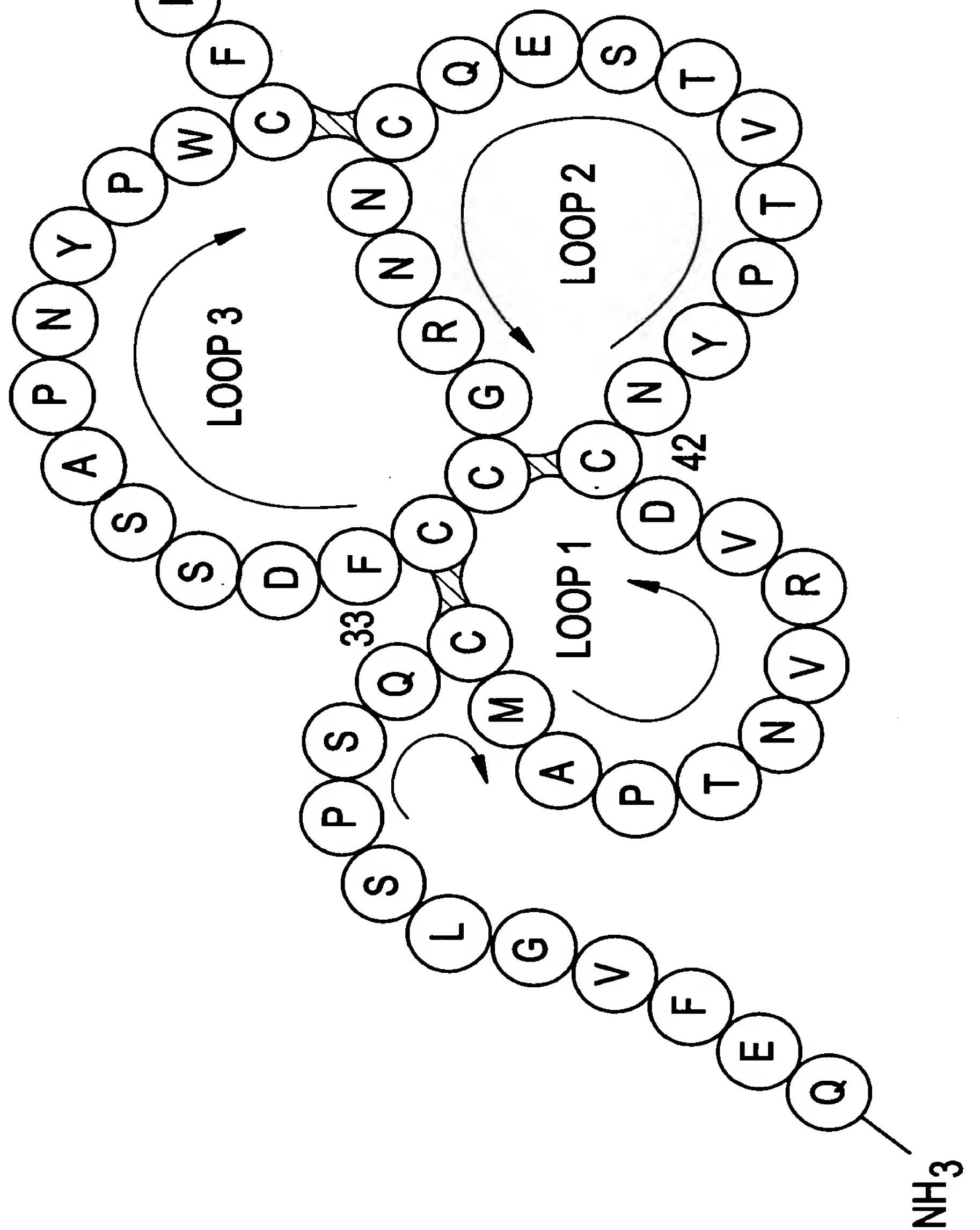




FIG. 6

g atg ctg ggg ctg gtc ctg gcc ttg ctg tcc tcc agc tct gct gag gag 49
Met Leu Gly Leu Val Leu Ala Leu Ser Ser Ser Ala Glu Glu 15
1 5 10 15
tac gtg ggc ctg tct gca aac cag tgt gcc gtg ccg gcc aag gac agg 97
Tyr Val Gly Leu Ser Ala Asn Gln Cys Ala Val Pro Ala Lys Asp Arg 30
20 25 30
gtg gac tgc ggc tac ccc cat gtc acc ccc aag gag tgc aac aac cgg 145
Val Asp Cys Gly Tyr Pro His Val Thr Pro Lys Glu Cys Asn Asn Arg 45
35 40 45
ggc tgc tgc ttt gac tcc agg atc cct gga gtg cct tgg tgt ttc aag 193
Gly Cys Cys Phe Asp Ser Arg Ile Pro Gly Val Pro Trp C P K 60
50 55 60
ccc ctg cag gaa gca gaa tgc acc ttc tgaggcacct ccagctgccc 243
P L Q E A E C T F 70
65
ctgggatgca ggctgagcac ccttgcccgg ctgtgattgc tgccaggcac tgttcattctc 303
agtttttctg tccctttgct cccgggaagc tttctgctga aagttcatat ctggagcctg 363
atgtcttaac gaataaaggc cccatgctcc acccgaaaaa 403

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FIG. 7

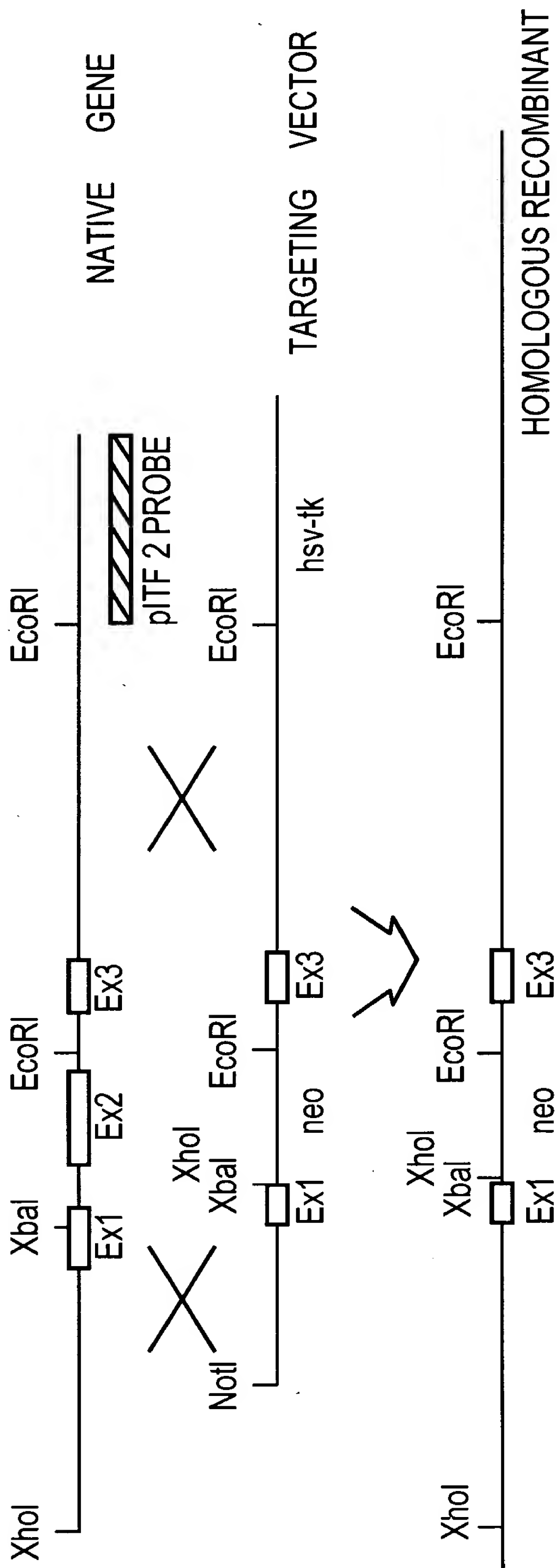




FIG. 8

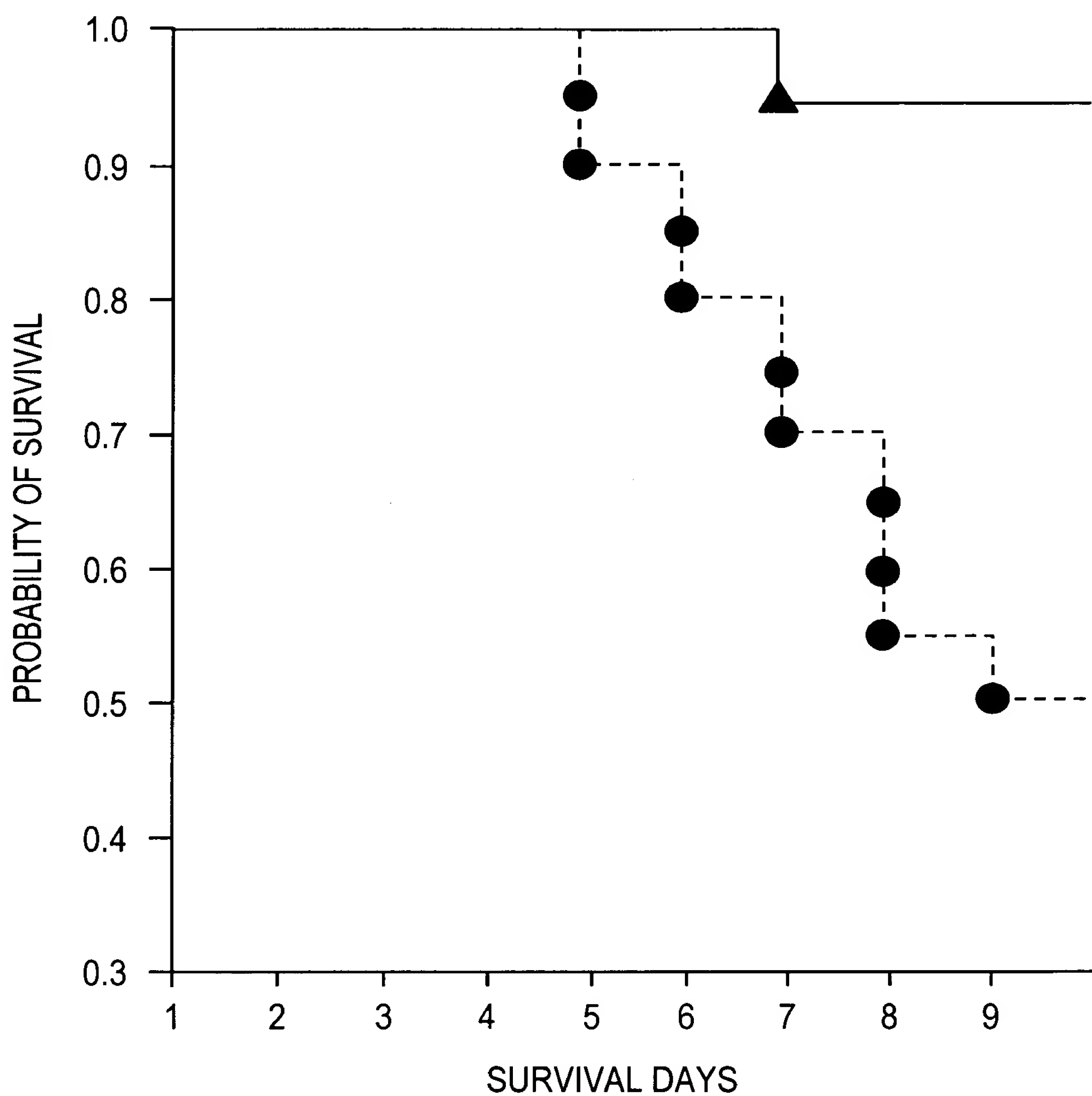




FIG. 9

gag aaa ccc tcc ccc tgc cag tgc tcc agg ctg agc
Glu Lys Pro Ser Pro Cys Gln Cys Ser Arg Leu Ser
1 5 10

ccc cat aac agg acg aac tgc ggc ttc cct gga atc acc agt gac cag
Pro His Asn Arg Thr Asn Cys Gly Phe Pro Gly Ile Thr Ser Asp Gln
15 20 25

tgt ttt gac aat gga tgc tgt ttc gac tcc agt gtc act ggg gtc ccc
Cys Phe Asp Asn Gly Cys Cys Phe Asp Ser Ser Val Thr Gly Val Pro
30 35 40

tgg tgt ttc cac ccc ctc cca aag caa gag tgc gat cag tgc gtc atg
Trp Cys Phe His Pro Leu Pro Lys Gln Glu Ser Asp Gln Cys Val Met
45 50 55 60

gag gtc tca gac aga aac tgt ggc tac ccg ggc atc agc ccc gag
Glu Val Ser Asp Arg Arg Asn Cys Gly Tyr Pro Gly Ile Ser Pro Glu
65 70 75

gaa tgc gcc tct cgg aag tgc tgc ttc tcc aac ttc atc ttt gaa gtg
Glu Cys Ala Ser Arg Lys Cys Cys Phe Ser Ser Asn Phe Ile Phe Glu Val
80 85 90

ccc tgg tgc ttc ttc ccg aac tct gtg gaa gac tgc cat tac
Pro Trp Cys Phe Phe Pro Asn Ser Val Glu Asp Cys His Tyr
95 100 105



FIG. 10

atccctgact cggggtcgcc tttggagcag agaggaggca atg gcc acc atg gag Met Ala Thr Met Glu 1 5	55
aac aag gtg atc tgc gcc ctg gtc ctg gtg tcc atg ctg gcc ctc ggc Asn Lys Val Ile Cys Ala Leu Val Ser Met Leu Ala Leu Gly 10 15 20	103
acc ctg gcc gag gcc cag aca gag acg tgt aca gtg gcc ccc cgt gaa Thr Leu Ala Glu Ala Gln Thr Glu Thr Cys Thr Val Ala Pro Arg Glu 25 30 35	151
aga cag aat tgt ggt ttt cct ggt gtc acg ccc cag tgt gca aat Arg Gln Asn Cys Gly Phe Pro Gly Val Thr Pro Ser Gln Cys Ala Asn 40 45 50	199
aag ggc tgc tgt ttc gac gac acc gtt cgt ggg gtc ccc tgg tgc ttc Lys Gly Cys Cys Phe Asp Asp Thr Val Arg Gly Val Pro Trp Cys Phe 55 60 65	247
tat cct aat acc atc gac gtc cct cca gaa gag tgt gaa ttt Tyr Pro Asn Thr Ile Asp Val Pro Pro Glu Glu Cys Glu Phe 70 75 80	292
tagacacttc tgcagggatc tgcctgcatc ctgacggggt gccgtcccca gcacggtgat tagtcccaga gctcggctgc cacctccacc ggacacctca gacacgcttc tgcagctgtg cctcgggtca caacacagat tgactgctct gactttgact actcaaaatt ggcctaaaaa ttaaaagaga tcgatattaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa	352 412 472 532 540



FIG. 11

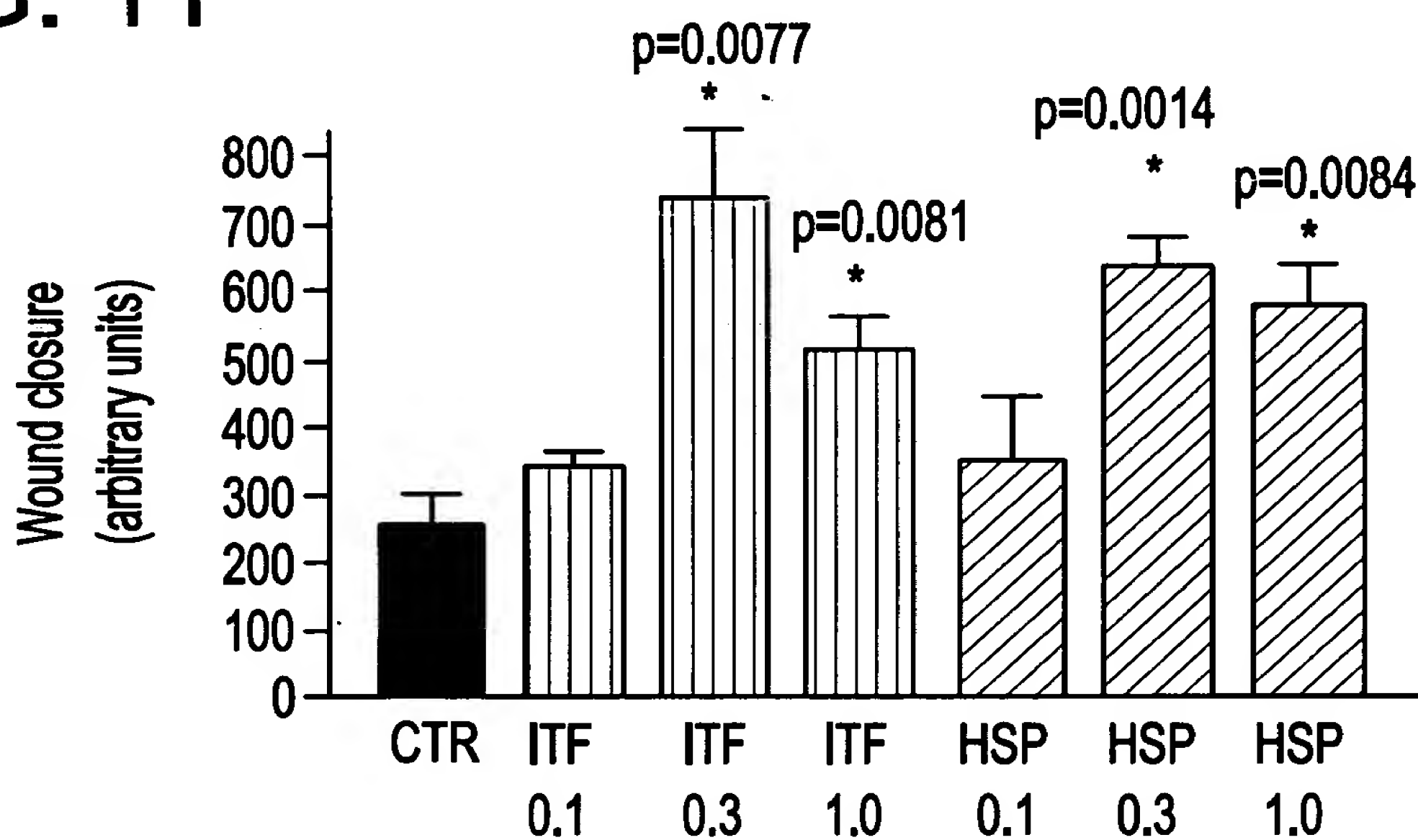


FIG. 12

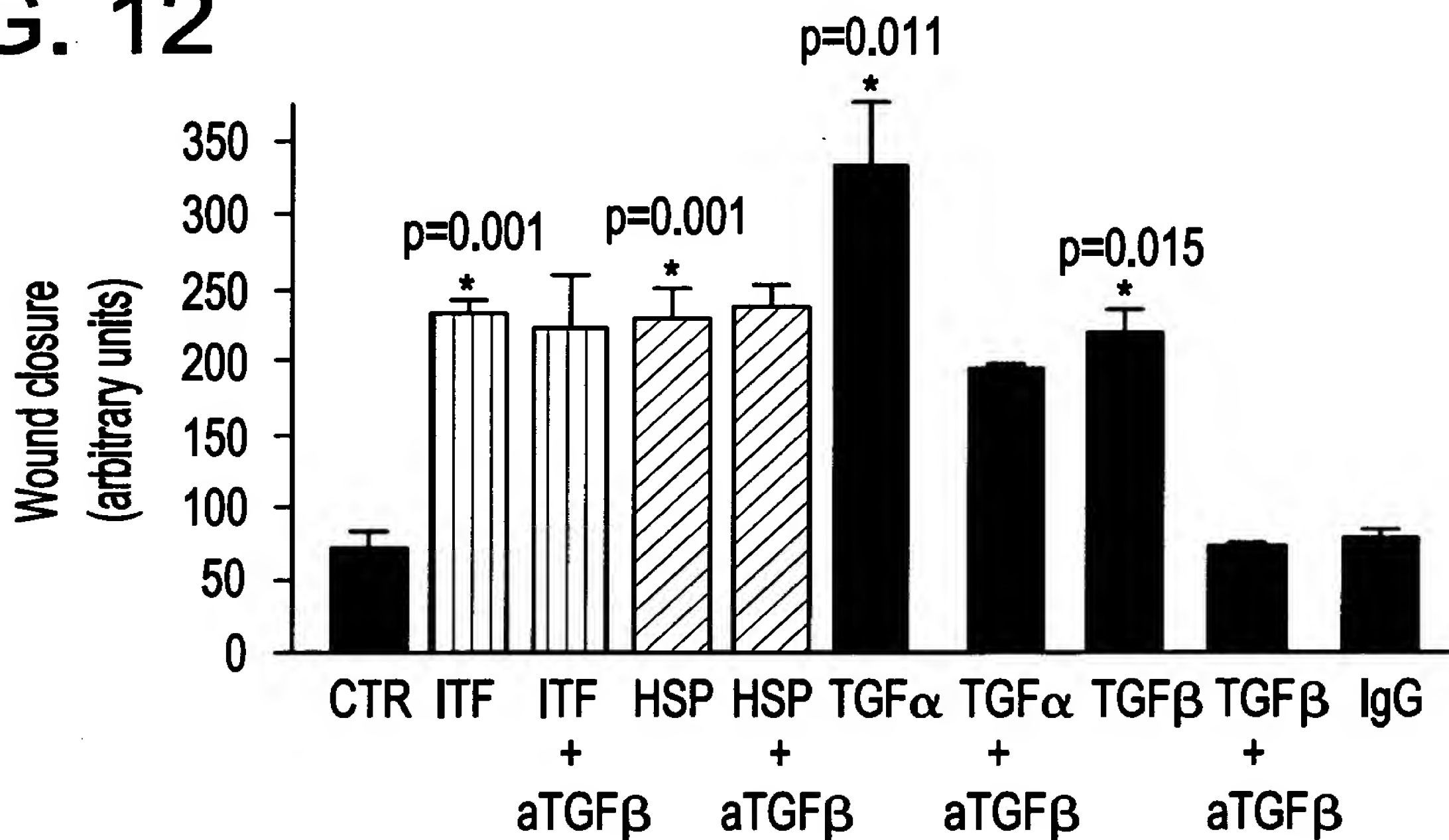


FIG. 13

